

What is claimed is:

1. Genetically modified bacterial strain *Corynebacterium glutamicum*, characterized in that genetical modification concerns at least one of the genes secD and secF of this strain.
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2. Bacterial strain of claim 1, characterized in that gene secD naturally has a sequence according to SEQ ID NO. 1, gene secF naturally has a sequence according to SEQ ID NO. 2 or respective homologous sequences thereof.
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3. Bacterial strain of claim 1 or 2, characterized in that genetical modification is selected from mutation, deletion, insertion, rearrangement of the genes to each other or to their promoter(s), control of gene expression by selection of promoter and multiplication of genes.
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4. Bacterial strain of any of claims 1 to 3, characterized in that secD and/or secF are overexpressed compared to wild type *Corynebacterium glutamicum*.
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5. Bacterial strain of any of claims 1 to 4, further containing at least one heterologous gene.
6. Bacterial strain of claim 5, whereby the heterologous gene enables the strain to use an external energy source, not used by the wild type *Corynebacterium glutamicum*.
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7. Bacterial strain of claim 6, whereby the heterologous gene is an amylase gene.
8. Bacterial strain of claim 5, whereby the heterologous gene enables the strain to produce a desired
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substance, which is the product of the heterologous gene or is produced by this heterologous gene product.

- 5 9. Protein with the sequence SEQ ID NO. 3 (SecD) or SEQ ID NO. 4 (SecF) or respective homologous protein or functional mutant or fragment thereof.
- 10 10. Polynucleotide sequence encoding a protein according to claim 9.
- 10 11. Polynucleotide sequence according to claim 10, whereby the polynucleotide sequence encoding a protein according to SEQ ID NO. 3 corresponds to SEQ ID NO. 1, the polynucleotide sequence encoding a protein according to SEQ ID NO. 4 corresponds to SEQ ID NO. 2.
- 15 12. Plasmid, containing at least one of the sequences SEQ ID NO. 1, SEQ ID NO. 2, or fragments or mutants thereof.
13. Use of the bacterial strain of any of claims 1 to 8 for production of a desired substance.
14. Use according to claim 13, whereby the substance is selected from the group amino acid, oligopeptide, polypeptide and protein.
- 20 15. Use according to claim 14, whereby the produced protein is a heterologous protein.
16. Use according to any of claims 13 to 15, whereby the produced substance is secreted by the bacterial strain.
- 25 17. Use of the bacterial strain of any of claims 1 to 8, of any protein of claim 9 or any polynucleotide sequence of claim 10 or 11 or a plasmid according to claim 12 in a reporter system.

18. Reporter system, comprising a bacterial strain according to one of claims 1 to 8.
19. Reporter system of claim 16, whereby the system reports protein translocation, protein expression, gene regulation, or inducibility of genes.

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